

FIG. 1A-1
FIG. 1A-2

FIG. 1A

GAATTCCTCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAACC	39 (UPPER: SEQ ID NO.: 1) 19 (LOWER: SEQ ID NO.: 4)
TTCCCTTCACTACAAAACCTTCATTGCTTGGCCAAAAGAGAGTTAATTCAATGTAGACAT	119 39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCAATTCATGGAGGGCAAC	179 59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTATGCAAGGTGGAACAAG	239 79
ATGGATTATCAAGTGTCAAGTCCAAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299 99
M D Y Q V S S P I Y D I N Y Y T S E P C	

FIG. 1A-1

CAAAAATCAATGTGAAGCAAAATCGAGCCCGCTCCTCGCTCTACTCAGTGGTG 359
 Q K I N V K Q I A A R L L P P L Y S L V 119
 TTCATCTTTGGTTTGTGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG 419
 F I F G F V G N M L V I L I L I N C K R 139
 CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT 479
 L K S M T D I Y L L N L A I S D L F F L 159
 CTTACTGTCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG 539
 L T V P F W A H Y A A A Q W D F G N T M 179
 TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTCTCGGAATCTTCTTCATCATC 599
 C Q L L T G L Y F I G F F S G I F F I I 199
 CTCCTGACAAATCGATAGGTACCTGGCTGTCTCGTCCATGCTGTGTTGCTTTAAAGCCAGG 659
 L L T I D R Y L A V V H A V F A L K A R 219
 ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCATTGGGTGGTGGCTGTGTTGCGTCT 719
 T V T F G V V T S V I T W V V A V F A S 239
 CTCCCAGGAATCATCTTTACCAGATCTCAAAAAGAGGTCTTTCATTACACCTGCAGCTCT 779
 L P G I I F T R S Q K E G L H Y T C S S 259

CATTITCCATACA
 H F P Y

FIG. 1A-2

FIG. 1B-1
FIG. 1B-2

FIG. 1B

GAATCCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAAACC	59 (UPPER: SEQ ID NO.: 2)
	19 (LOWER: SEQ ID NO.: 5)
TTCCCTTCACTACAAAACCTTCATTGCTTGCCAAAGAGAGTTAATCAATGTAGACAT	119
	39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTTCATGGAGGGCAAC	179
	59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTATGCACAGGGTGGAACAAG	239
	79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTAATTATACATCGGAGCCCTGC	299
M D Y Q V S S P I Y D I N Y Y T S E P C	99

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FIG. 1B-1

CAAAAATCAATGTGAAGCAAAATCGAGCCCGCCTCCTGCTCCGCTCTACTCACTGGTG 359
 Q K I N V K Q I A A R L L P P L Y S L V 119

 TTCACTCTTGGTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG 419
 F I F G F V G N M L V I L I L I N C K R 139

 CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTCCTT 479
 L K S M T D I Y L L N L A I S D L F L 159

 CTTACTGTCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG 539
 L T V P F W A H Y A A A Q W D F G N T M 179

 TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTCTGGAATCTTCTTCATCATC 599
 C Q L L T G L Y F I G F F S G I F I I 199

 CTCCTGACAAATCGATAGGTACCTGGCTGCTGCCATGCTGTGTTTGTCTTAAAGCCAGG 659
 L L T I D R Y L A V V H A V F A L K A R 219

 ACGGTCACCTTTGGGGTGGTGACAAAGTGTGATCACTTGGGTGGTGGCTGTGTTGCGTCT 719
 T V T F G V V T S V I T W V V A V F A S 239

 CTCCCAGGAATCATCTTTACCATCTCAAAAGAGTCTTCTTACCTGCAGCTCT 779
 L P G I I F T R S Q K E G L H Y T C S S 259

 CATTTTCCATACAGTCAGTATCAATTCTGGAAGAATTTCCAGACATTAAAGATAGTCATC 839
 H F P Y S Q Y Q F W K N F Q T L K I V I 279

FIG. 1B-2

TTGGGGCTGGTCTGCCGCTGCTTGTCATGTCATCTGCTACTCGGGAATCCTAAAACT 899
 L G L V L P L L V M V I C Y S G I L K T 299
 CTGCTTCGGTGTGAAATGAGAAGAAGAGGCACAGGCTGTGAGGCTTATCTTCACCATC 959
 L L R C R N E K K R H R A V R L I F T I 319
 ATGATTGTTTATTTCTCTTCTGGGCTCCCTACAACATTGTCTTCTCTCTGAACACCTTC 1019
 M I V Y F L F W A P Y N I V L L L N T F 339
 CAGGAATTCTTTGGCCTGAATAATTGCAGTAGCTCTAACAGGTGGACCAAGCTATGCAG 1079
 Q E F F G L N N C S S S N R L D Q A M Q 359
 GTGACAGAGACTCTTGGGATGACGCACCTGCTGCATCAACCCCATCATCTATGCCCTTGTG 1139
 V T E T L G M T H C C I N P I I Y A F V 379
 GGGGAGAAGTTCAGAAACTACCTCTTAGTCTTCTTCCAAAGCACATTGCCAAACGCTTC 1199
 G E K F R N Y L L V F F Q K H I A K R F 399
 TGCAAATGCTGTCTATTTCCAGCAAGAGGCTCCCGAGCGAGCAAGCTCAGTTTACACC 1259
 C K C C S I F Q Q E A P E R A S S V Y T 419
 CGATCCACTGGGAGCAGGAATAATCTGTGGGCTTGTGACACGGACTCAAGTGGGCTGGT 1319
 R S T G E Q E I S V G L * 439
 GACCCAGTCAGAGTTGTGCACATGGCTTAGTTTTCATACACAGCCTGGGCTGGGGTNGG 1379
 459
 TTGGNNGAGGTCTTTTTTAAAGGAAGTTACTGTTATAGAGGGTCTAAGATTCCATCATT 1439
 479
 TATTGGCATCTGTTTAAAGTAGATTAGATCCGAATTC

FIG. 1B-3

FIG. 1D-1
FIG. 1D-2

FIG. 1D

59 (UPPER: SEQ ID NO. 3)
19 (LOWER: SEQ ID NO. 6)

GAATTCCCCAACAGAGCCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAACC

119
39

TTCCCTTCACTACAAAACCTTCATTGCTTGGCCAAAAGAGAGTTAATTCAATGTAGACAT

179
59

CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTTCATGGAGGCAAC

239
79

TAAATACATTCTAGGACTTTATAAAAGATCACCTTTTATTATGCACAGGGTGGAACAAG

299
99

ATGGATTATCAAGTGTCAAGTCCCAATCTATGACATCAATTATTATACATCGGAGCCCCTGC
M D Y Q V S S P I Y D I N Y Y T S E P C

FIG. 1D-1

CAAAAATCAATGTGAAGCAAAATCGAGCCCGCTCCTCGCTCTACTCCTGGTG 359
 Q K I N V K Q I A A R L L P P L Y S L V 119
 TTCATCTTTGGTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG 419
 F I F G F V G N M L V I L I L I N C K R 139
 CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCCTT 479
 L K S M T D I Y L L N L A I S D L F F L 159
 CTTACTGTCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG 539
 L T V P F W A H Y A A A Q W D F G N T M 179
 TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTCTGGAATCTTCTTCATCATC 599
 C Q L L T G L Y F I G F F S G I F F I I 199
 CTCCTGACAAATCGATAGGTACCTGGCTGTGCTGCCATGCTGTGTTTAAAGCCAGG 659
 L L T I D R Y L A V V H A V F A L K A R 219
 ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCATTGGGTGGTGGCTGTGTTTGGCTCT 719
 T V T F G V V T S V I T W V V A V F A S 239
 CTCCCAGGAATCATCTTTACCAGATCTCAAAAGAAGTCTTCATTACACCTGCAGCTCT 779
 L P G I I F T R S Q K E G L H Y T C S S 259
 CATTTCATACATTAAAGATAGTCATCTTGGGGCTGGTCTCCTGCCGCTGCTGTGTCATGGT 839
 H F P Y I K D S H L G A G P A A A C H G 279

FIG. 1D-2

CATCTGCTACTCGGAATCCTAA	899
H L L G N P K N S A S V S K *	299
CAGGGCTGTGAGGCTTATCTTCACCATCATGATGTTTATTTCTCTTCCTCGGCTCCCTA	959
	319
CAACATTTGTCTTCTCCTGAACACCTTCCAGGAATTCCTTTGGCCCTGAATAATTGCAGTAG	1019
	339
CTCTAACAGGTTGGACCAAGCTATGCAGGTGACAGAGACTCTTGGGATGACGCACCTGCTG	1079
	359
CATCAACCCCATCATCTATGCCCTTTGTCTGGGAGAGTTTCAGAAACTACTCTTAGTCTT	1139
	379
CTTCCAAAGCACATTGCCAAACGCTTCTGCAAAATGCTGTTCTATTTTCCAGCAAGAGGC	1199
	399
TCCCGAGCGAGCAAGCTCAGTTTACACCCGATCCACTGGGGAGCAGGAATAATCTGTGGG	1259
	419
CTTGTGACACGGACTCAAGTGGGCTGGTGACCCAGTCAGAGTTGTGCACATGGCTTAGTT	1319
	439
TTCATACACAGCCTGGGCTGGGGTNGGTTGNNAGGCTCTTTTAAAGGAAGTTACT	1379
	459
GTTATAGAGGCTCTAAGATTCAATCCATTTATTTGGCATCTGTTTAAAGTAGATTAGATCC	1439
	479

GAATTC

FIG. 1D-3

CCR5	YTCSSHPFPYSQVQFWKNFQTLKIVILGLVPLLLVMVICYSGILKTLRCRNEKKRHRAVRILFTIMIVYFLFWAPYNIVLLNTFQEFFGLNNC	272
hcc-R2b	YVCGPYFPRG...NNNFHTIMRNILGLVPLLLVMVICYSGILKTLRCRNEKKRHRAVRILFTIMIVYFLFWAPYNIVLLNTFQEFFGLSNC	280
hcc-R3	TLCSALYPEDTVYSWRHFTLRMTTFCLVPLLVMAICYTGITKTLRCQSKKK.YKARLIFVIMAVFFLFWTPYNVAILLSSYSILFGNDC	276
hcc-R1	HTCSLHFPHESLREWKLFQALKLNLEGLVPLLVMAICYTGITKTLRCQSKKK.SKAVRLIFVIMAVFFLFWTPYNLTILISVFQDFLFTHEC	276
hcc-R4	TYCKTKYSLSNST.TWKVLSSLEINILGLVPLPLGIMLFCYSMIIRTLQHCNEKK.NKAVKMIFAVVVFLGFWTPYNIVLFIETLVELEVLDQC	279

VI

V

CCR5	SSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKERNYLLVFFQKHIAKR.FCKCCSIFQQAEPERASSVYTRSTGEQEIISVGL	352
hcc-R2b	ESTSQLDQATQVTETLGMTHCCINPIIYAFVGEKERNYLLVFFQKHIKFR.FCKQCPVFYRETVDGVSTNIPSTGEQEVSAAGL	360
hcc-R3	ERSKHLDVMIIVTEVIAYSHCCMNPVIYAFVGERPKYLRHFFHRHLLMH.LGRYIPFLPSEKLERITSSV.SPSTAEPELSIVF	355
hcc-R1	EQSRHLDLAVQVTEVIAYTHCCVNPNVIYAFVGERPKYLRQLFHRRVAVH.LVWLPFLSVDRLERVSS.T.SPSTGEHELSAGF	355
hcc-R4	TFERYLDYAIQAETETLAFVHCCINPIIYFFLGEKERNYLLVFFQKHIKFR.TCRGLFVICQYCGLLQIYSADTPSSSYTQSTMDHDLHDAL	360

VII

FIG. 2B

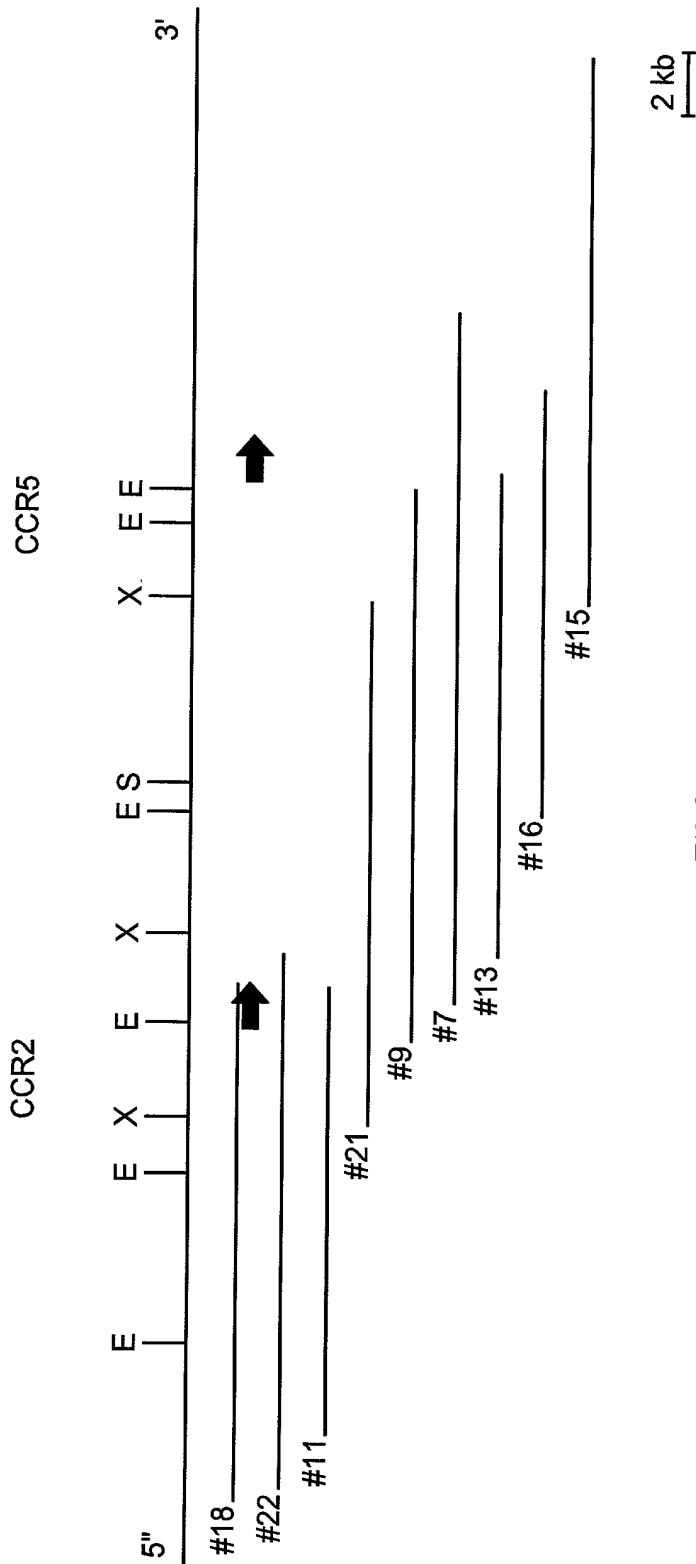


FIG. 3

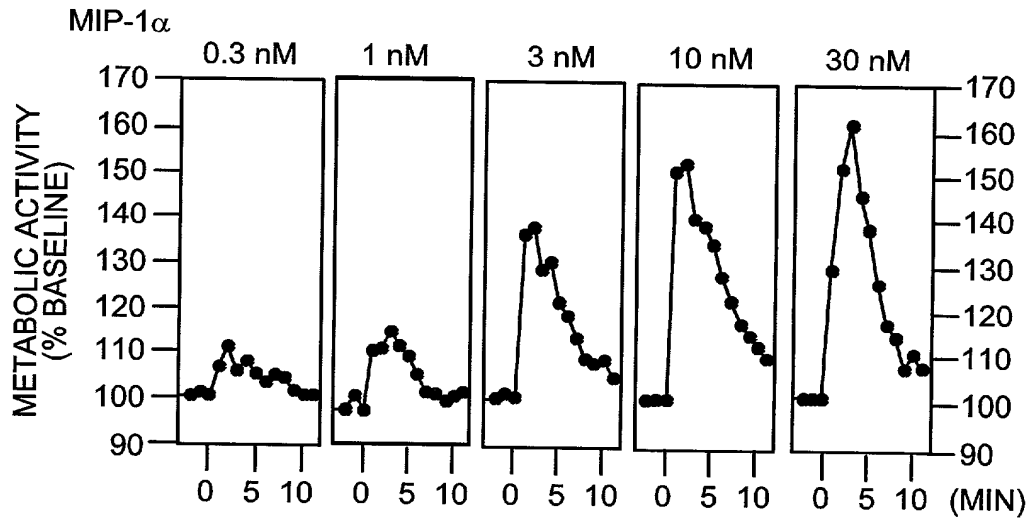


FIG. 4A

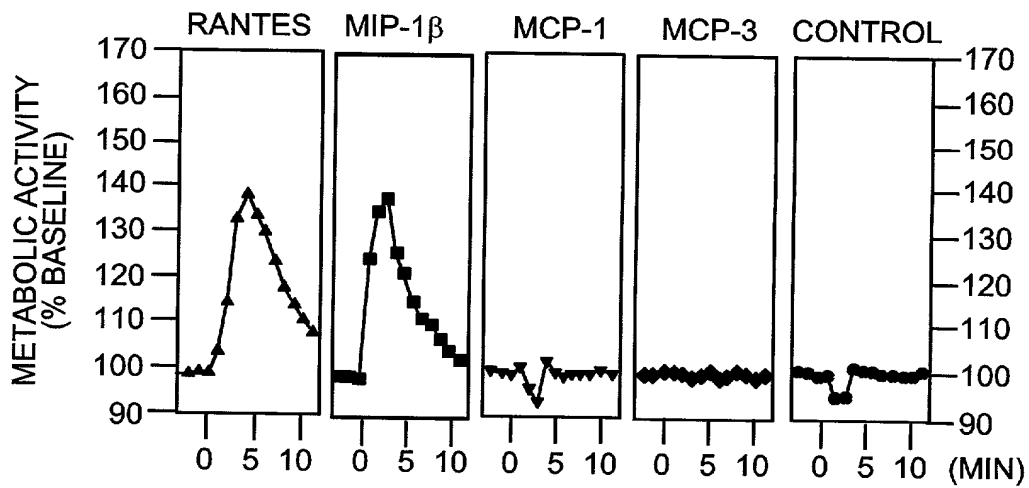


FIG. 4B

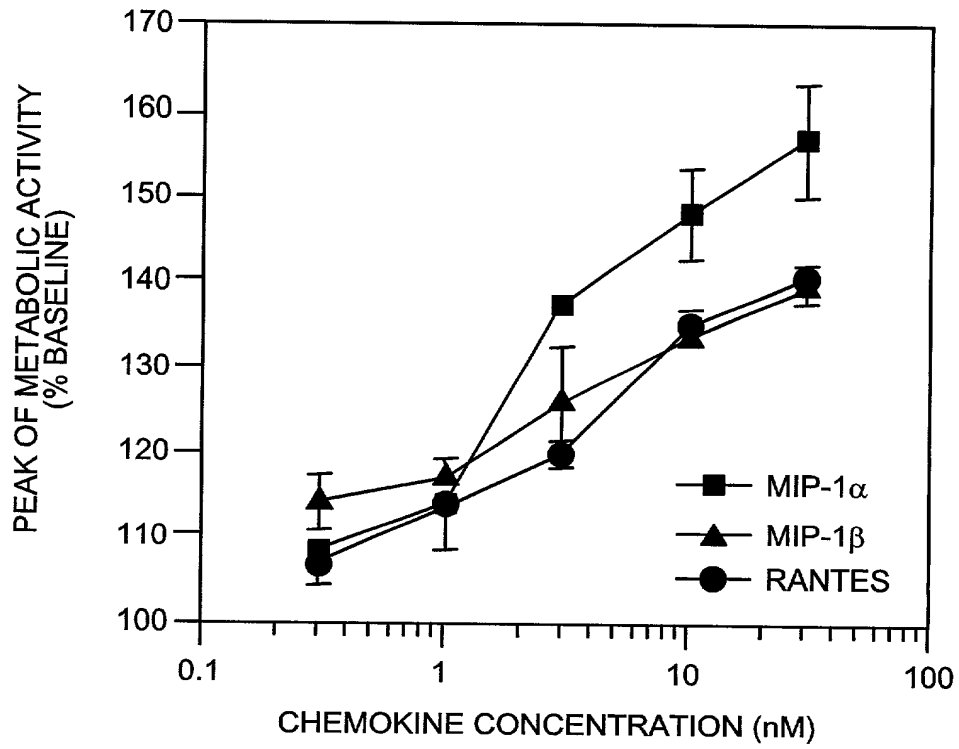
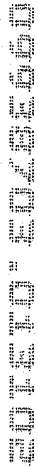


FIG. 4C

[illegible]

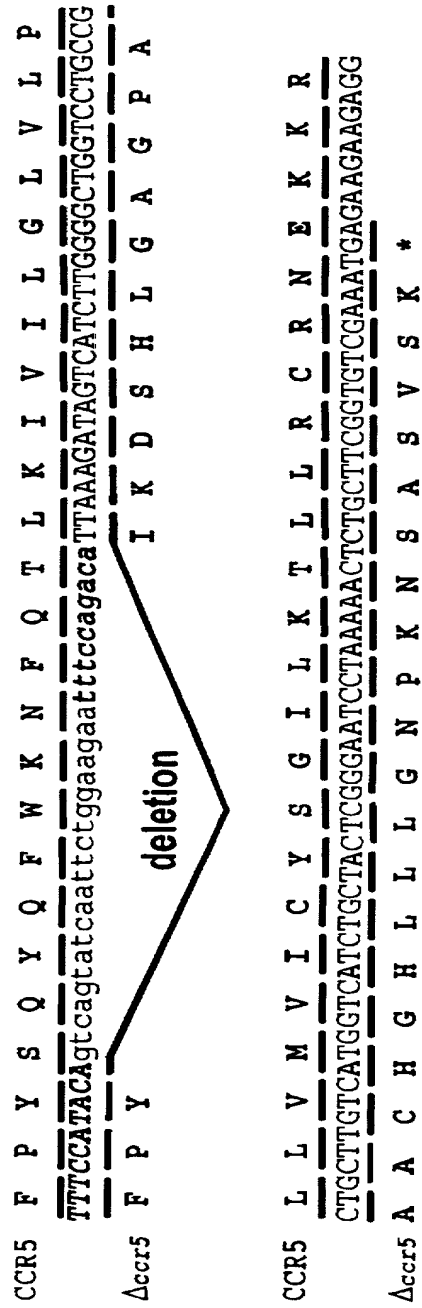


FIG. 6B

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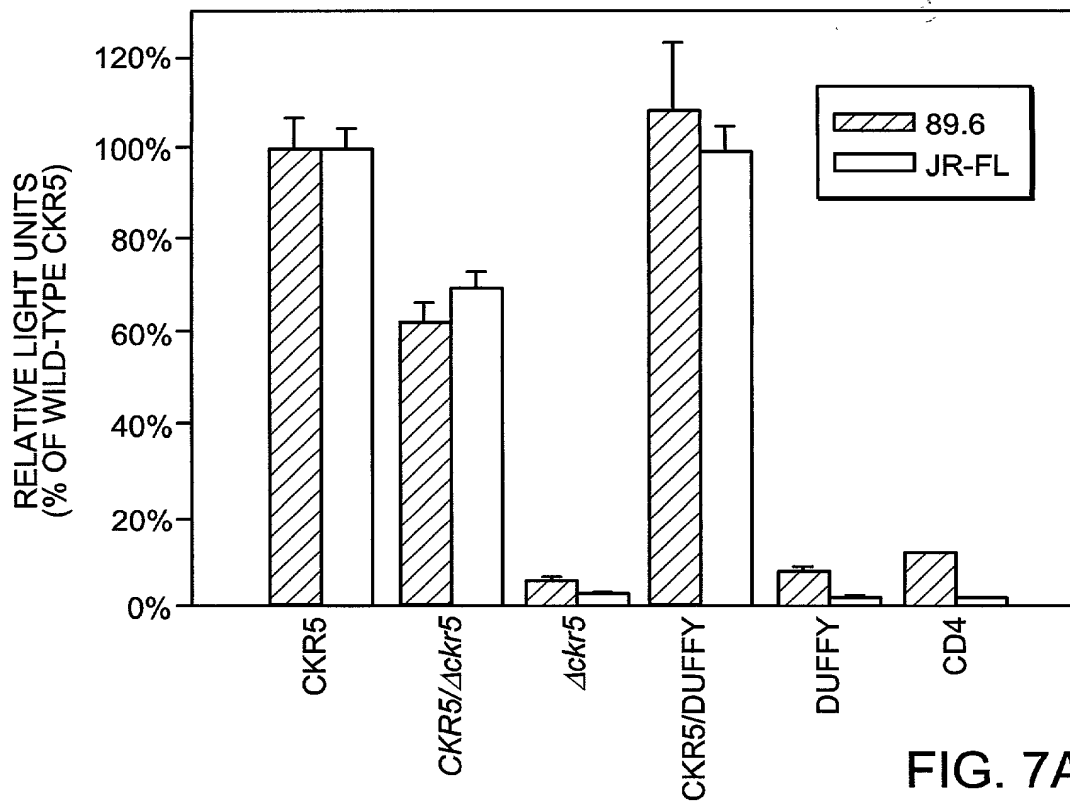


FIG. 7A

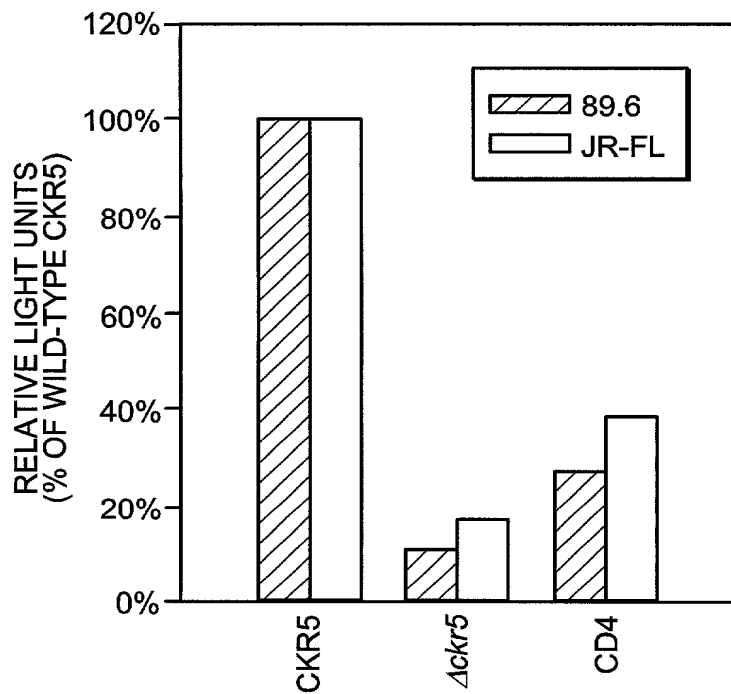


FIG. 7B

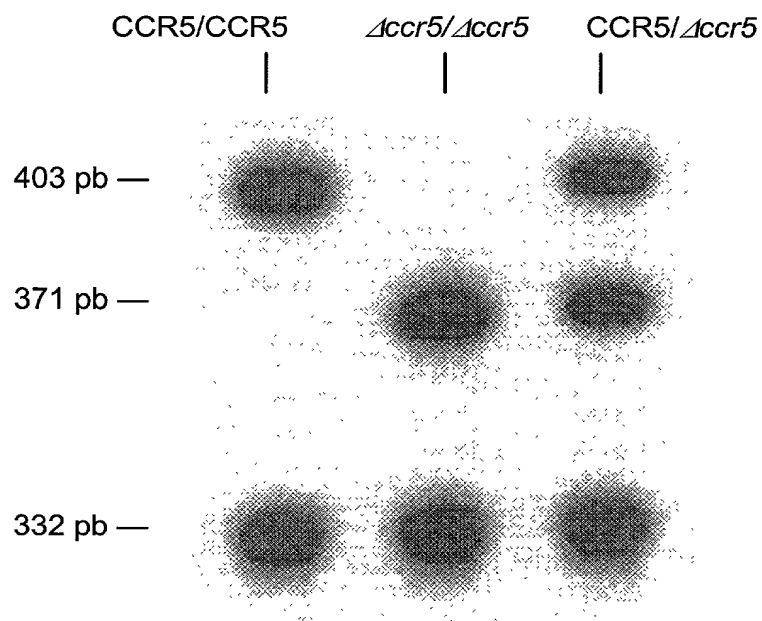


FIG. 8

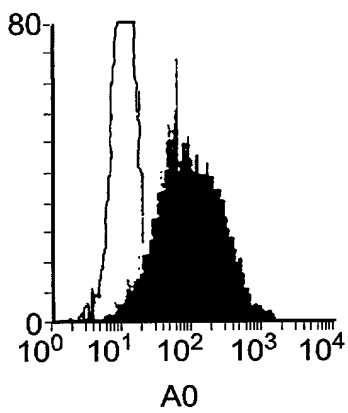


FIG. 9A

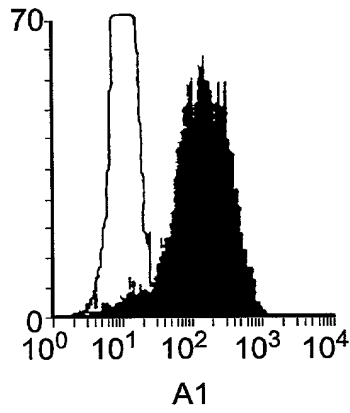


FIG. 9B

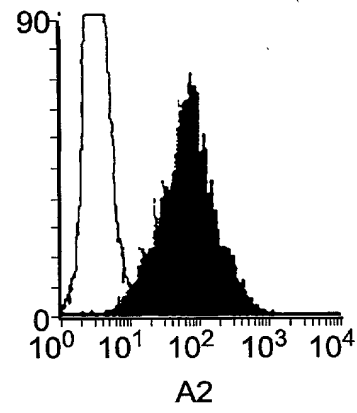


FIG. 9C

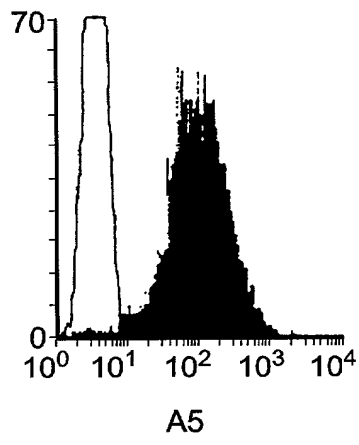


FIG. 9D

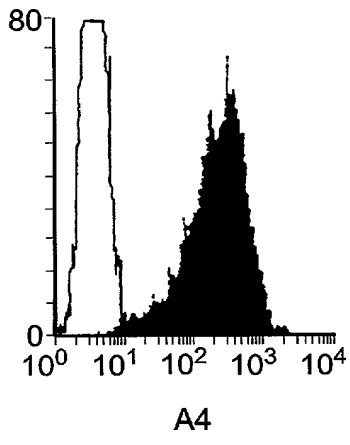


FIG. 9E

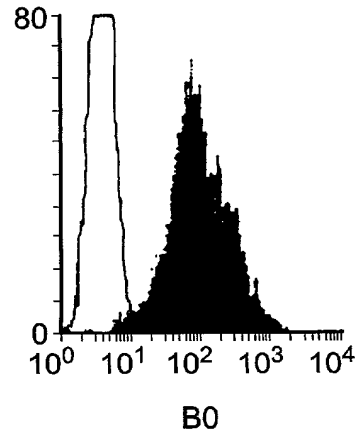


FIG. 9F

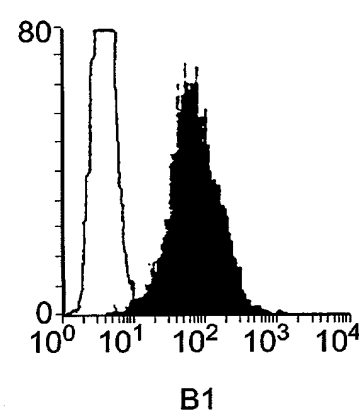


FIG. 9G

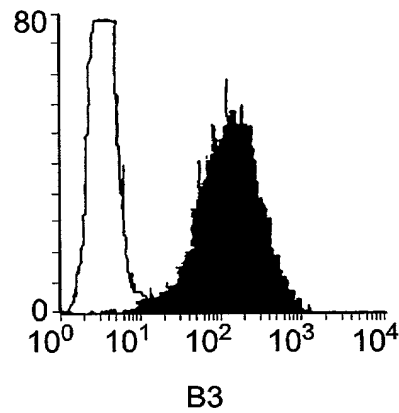


FIG. 9H

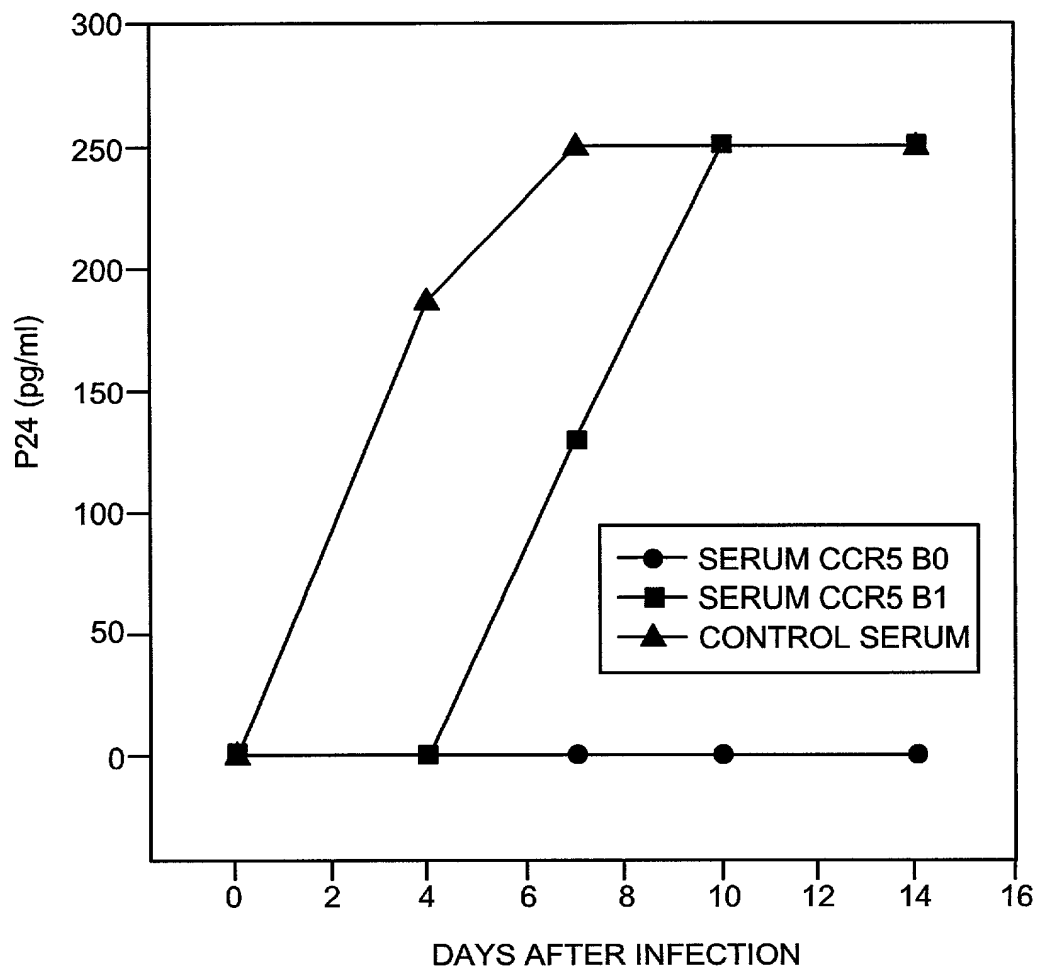


FIG. 10